



Network Centric Warfare: The Australian Perspective



Agenda

- Function of NCW in ADF Warfighting Concept: Multi-dimensional Manoeuvre
- Dimensions and premises of NCW
- Risks
- ADF implementation of NCW



Part 1 - NCW in the ADF Future Warfighting Concept



ADF Future Warfighting Concept

- The seamless force
- The networked force
- The force conducting effects based operations



Warfighting Functions

- Force Application
- Command and Control
- Information Superiority and Support
- Force Protection
- Force Deployment
- Force Generation and Sustainment



Multi-dimensional Manoeuvre

Tempo:

- simultaneity, create decision dilemmas

Agility

- flexible, adaptable, cope with the unexpected

Fighting Asymmetrically

- identifying and capitalising weakness in adversary's strategy



Part 2 - Dimensions and Premises of NCW



Dimensions of NCW

Network Dimension

- info sharing, info systems, applications, data

Human Dimension

- reaction and interaction to the network to act more effectively



Premises of NCW

- Professional Mastery
- Mission Command
- Network
- Situational Awareness
- Self-synchronisation



Professional Mastery

Professional Mastery is fundamental to any application of NCW.

- perform to high standard, trust
- organisation
- commanders
- training
- doctrine



Mission Command

Mission Command will remain an effective command philosophy into the future.

- commander's intent
- initiative
- vulnerability of networks and
- communications systems



Network

Information and intelligence will be effectively shared if a network is built that connects engagement, sensor and C2 systems.

- C2, sensor, engagement systems
- connect-collect-use-protect
- point of overlap between human and network dimension
- information, cognitive, physical domains



Shared Situational Awareness

Robust networks will allow the ADF, and supporting agencies, to collaborate more effectively and achieve shared situational awareness.

- Absorb, collaborate, understand
- quality of network and people



Self-synchronisation

Shared situational awareness will enable self-synchronisation, which helps warfighters to adapt to changing circumstances and allow them to apply Multi-dimensional Manoeuvre more effectively.

- Evolve from top down synchronisation
- recognise opportunities
- faster actions by collective initiative of lower level commanders



A Warfighting Advantage

Enable

- operational art
- lower level commanders to adjust to meet commander's intent
- action without waiting for instruction

Result

- agility, tempo and asymmetric operations



Part 3 - Risks



5 Risks to NCW

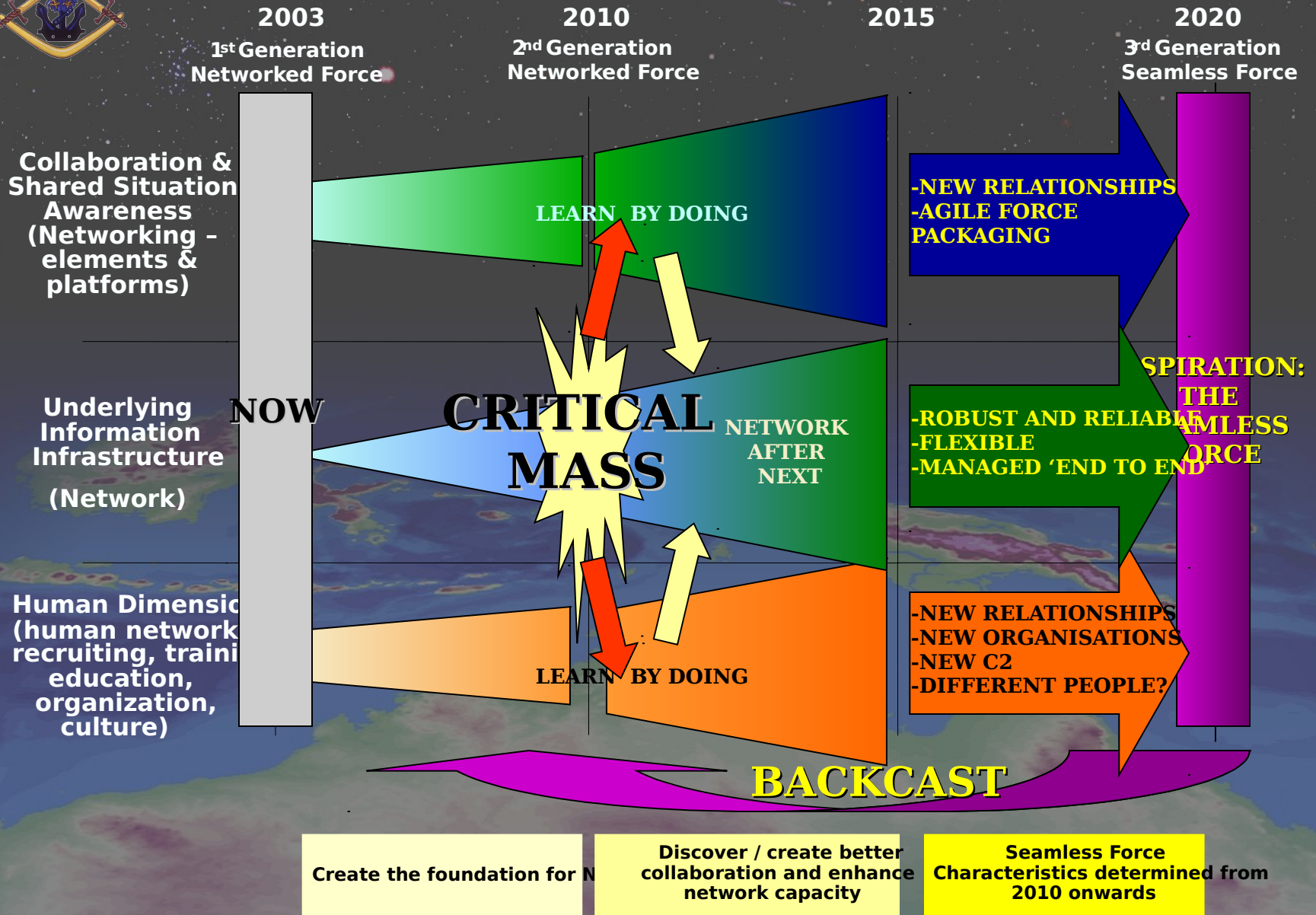
- Failure to appropriately incorporate Human Dimension
- Failure to recognise network vulnerability
- Pursuit of the 'transparent' battlespace
- Failure to guard against information overload
- Inappropriate balance of capability development to detriment of engagement systems.



Part 4 - ADF Implementation of NCW



Approach to Implementing NCW





Implementing NCW - coordination with allies



Conclusion



Questions